

ABSTRACT

Novel photochromic diarylethenes substituted with an isoxazole group and the method of preparation are disclosed. Also disclosed are compositions made with the photochromic diarylethenes. The preparation of thin films with the photochromic diarylethenes or compositions thereof are disclosed. The photochromic diarylethenes or compositions thereof may be used, for example in recording materials, photochromic windows, indicating elements, plastic mirrors, photochromic filters, photo switches, photosensitive drums, recording elements, solar cells, lens, fibers and optical elements.